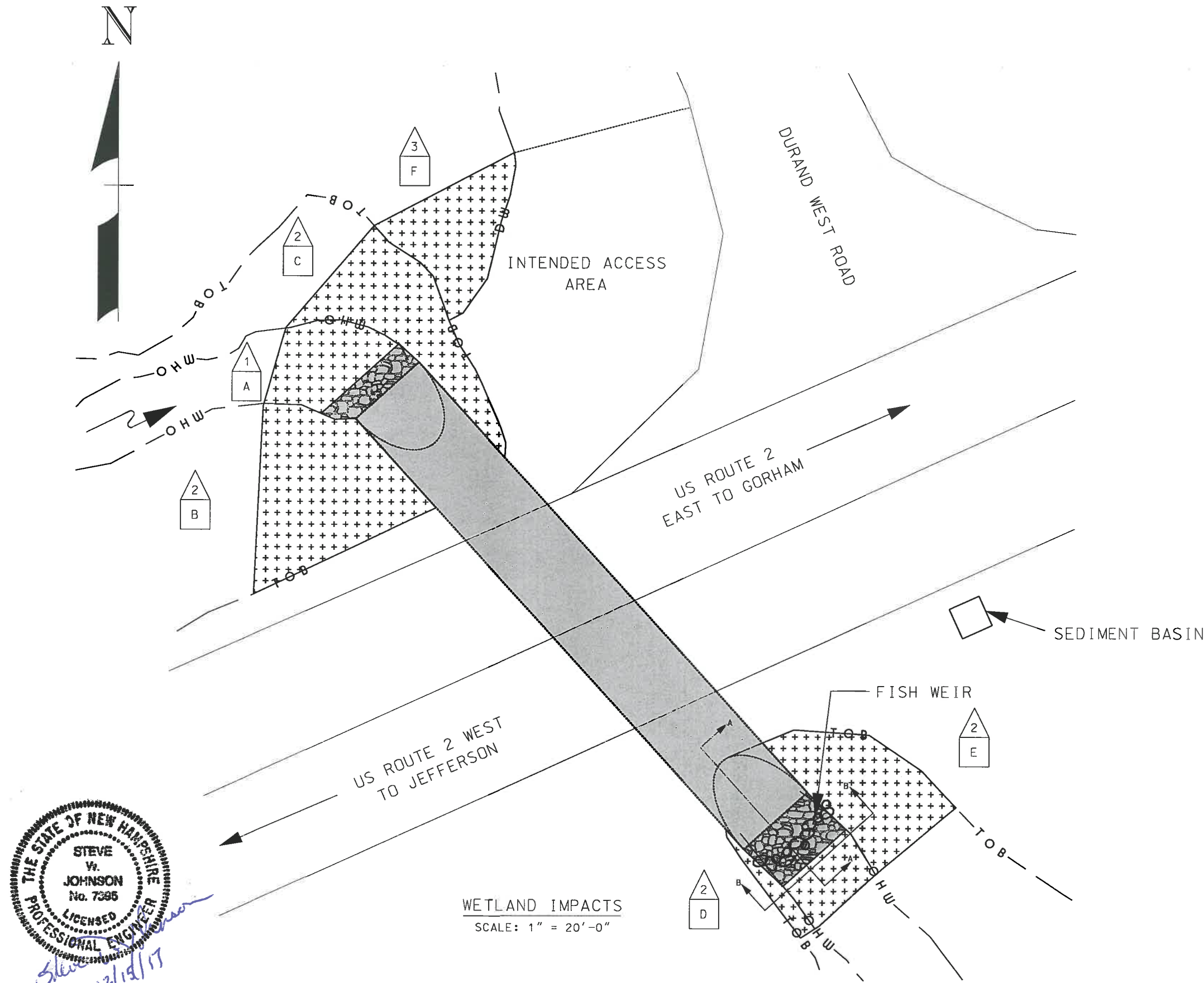
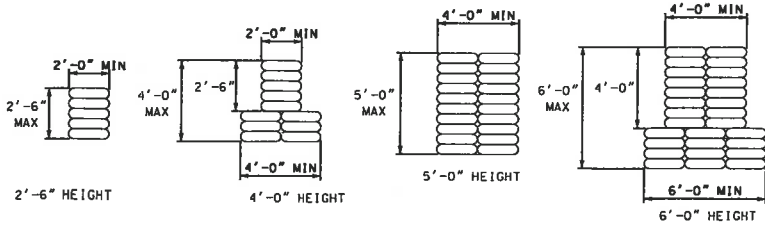


RIPRAP GRADATION
D15 < 18.5"
D50 < 24"
D100 < 42"



LEGEND

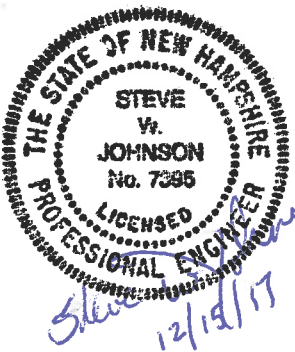
TYPE OF WETLAND IMPACT	SHADING/HATCHING	#	WETLAND DESIGNATION NUMBER
NEW HAMPSHIRE WETLANDS BUREAU (PERMANENT NON-WETLAND)	[Diagonal Hatching]	#	WETLAND IMPACT LOCATION
NEW HAMPSHIRE WETLANDS BUREAU & ARMY CORP OF ENGINEERS (PERMANENT WETLAND)	[Solid Grey]	#	WETLAND MITIGATION AREA
TEMPORARY IMPACTS	[Cross-hatching]		MITIGATION



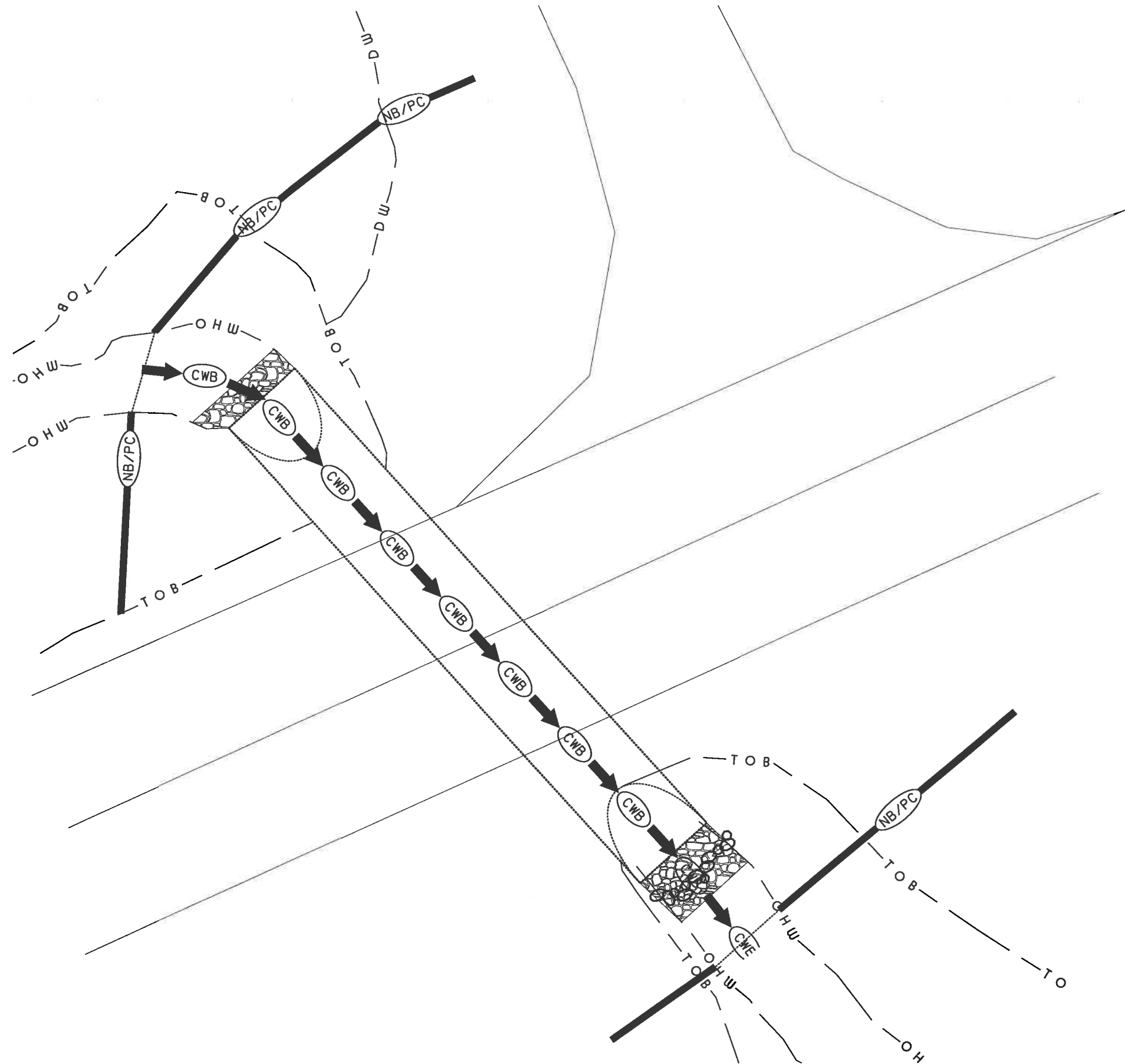
COFFERDAM DETAILS

NOT TO SCALE

WETLANDS DELINEATED BY SARAH LARGE AND MATT URBAN MAY, 2017



STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE									
TOWN	RANDOLPH			BRIDGE NO.	088/048		STATE PROJECT	41564	
LOCATION US 2 OVER MOOSE RIVER									
WETLAND IMPACTS									
REVISIONS AFTER PROPOSAL		BY		DATE		BY		DATE	
DESIGNED		DRL		9/18/17		CHECKED			
DRAWN		DRL		9/18/17		CHECKED			
QUANTITIES						CHECKED			
ISSUE DATE				FISCAL YEAR		CREW		SHEET NO.	
REV. DATE				2018		1		1	
SHEET SCALE		AS NOTED						TOTAL SHEETS	
								3	



EROSION CONTROL PLAN LEGEND	
	PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	NATURAL BUFFER/PERIMETER CONTROL SILT FENCE EROSION CONTROL MIX BERM EROSION CONTROL MIX SOX TURBIDITY CURTAIN SHEET PILE COFFER DAM
	CHANNEL PROTECTION STONE CHECK DAMS STRAW WATTLES CHANNEL MATTING CLASS D EROSION STONE CLASS C STONE
	CLEAN WATER BYPASS PUMP THROUGH PIPE DRAIN THROUGH PIPE OR CHANNEL

Note:

Natural Buffer/Perimeter Control measures shall be installed to protect outside the dewatered area if access or work in a non-jurisdictional area causes earth disturbance.

Quadrants without earth disturbance shall be protected with appropriate Best Management Practices as needed.

10 0 10 20
SCALE IN FEET

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE									
TOWN RANDOLPH		BRIDGE NO. 088/048		STATE PROJECT 41564					
LOCATION US 2 OVER MOOSE RIVER									
EROSION CONTROL PLANS									
REVISIONS AFTER PROPOSAL		DESIGNED BY DATE		CHECKED BY DATE		BRIDGE SHEET 2 OF 4			
		DRAWN DBL 9/18/17		CHECKED		FILE NUMBER RANDOLPH 088/048			
		QUANTITIES		CHECKED					
SHEET SCALE AS NOTED		ISSUE DATE		FISCAL YEAR 2018		CREW 1		SHEET NO. 1	
		REV. DATE						TOTAL SHEETS 3	

WETLAND IMPACT SUMMARY											
WETLAND NUMBER	WETLAND CLASSIFICATION	LOCATION	AREA IMPACTS						LINEAR STREAM IMPACTS FOR MITIGATION		
			PERMANENT				TEMPORARY		PERMANENT		
			N.H.W.B. (NON WETLAND)		N.H.W.B. & A.C.O.E. (WETLAND)				BANK LEFT	BANK RIGHT	CHANNEL
			SF	LF	SF	LF			SF	LF	LF
1	R2UB12	A			1955	124	425	28			
2	BANK	B					713	38			
2	BANK	C					490	47			
2	BANK	D					60	29			
2	BANK	E					476	32			
3	PEM1E/PSS1E	F					358				
		G									
		H									
		I									
		J									
		K									
		L									
TOTAL			0	0	1955	124	2522	174	0	0	0

PERMANENT IMPACTS: 1955 SF

TEMPORARY IMPACTS: 2522 SF

TOTAL IMPACTS: 4477 SF

SUBTOTALS		PERMANENT				TEMPORARY	
		N.H.W.B. (NON WETLAND)		N.H.W.B. & A.C.O.E. (WETLAND)			
CLASS	DESCRIPTION	SF	LF	SF	LF	SF	LF
R2UB12	RIVERINE	0	0	1955	124	425	28
BANK	BANK	0	0	0	0	1739	146
PEM1E/PSS1E	PALUSTRINE	0	0	0	0	358	0
		0	0	0	0	0	0
		0	0	0	0	0	0

WETLAND CLASSIFICATION CODES	
R2UB12	RIVERINE, LOWER PERENNIAL, UNCONSOLIDATED BOTTOM, COBBLE GRAVEL,SAND
PEM1E/PSS1E	PALUSTRINE, EMERGENT, PERSISTENT, SEASONALLY FLOODED/ SATURATED/ PALUSTRINE, SCRUB SHRUB, BROAD LEAVED DECIDUOUS, SEASONALLY FLOODED SATURATED
BANK	BANK

STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE

TOWN RANDOLPH

BRIDGE NO. 088/048

STATE PROJECT 41564

LOCATION US 2 OVER MOOSE RIVER

WETLAND KEY AND SUMMARY

REVISIONS AFTER PROPOSAL

DESIGNED BY DATE

DRAWN DBL 9/18/17

QUANTITIES

ISSUE DATE

REV. DATE

CHECKED

CHECKED

CHECKED

FISCAL YEAR 2018

CUBW 1

SHEET NO. 2

BRIDGE SHEET 3 OF 4

FILE NUMBER RANDOLPH 088/048

TOTAL SHEETS 3

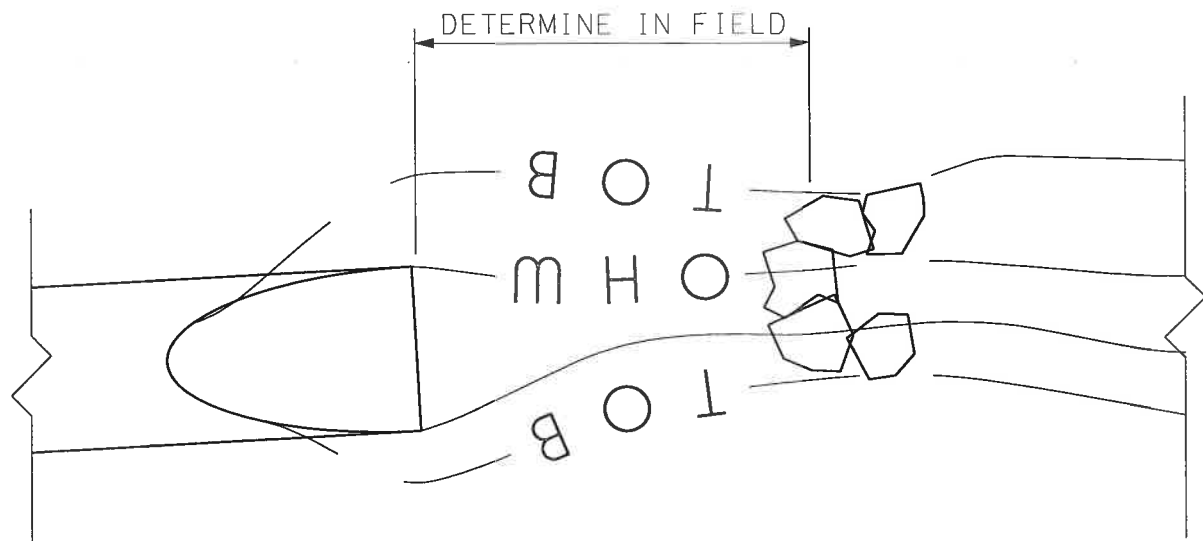
SHEET SCALE AS NOTED

2018

1

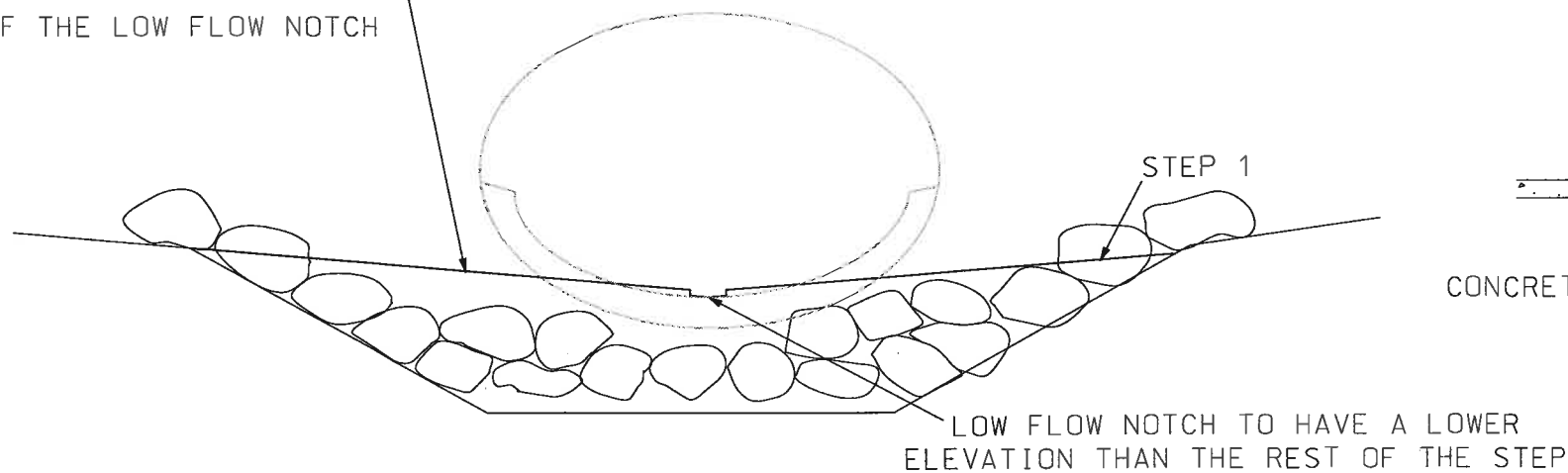
2

3



FISH WEIR SECTION
PLAN VIEW
NOT TO SCALE

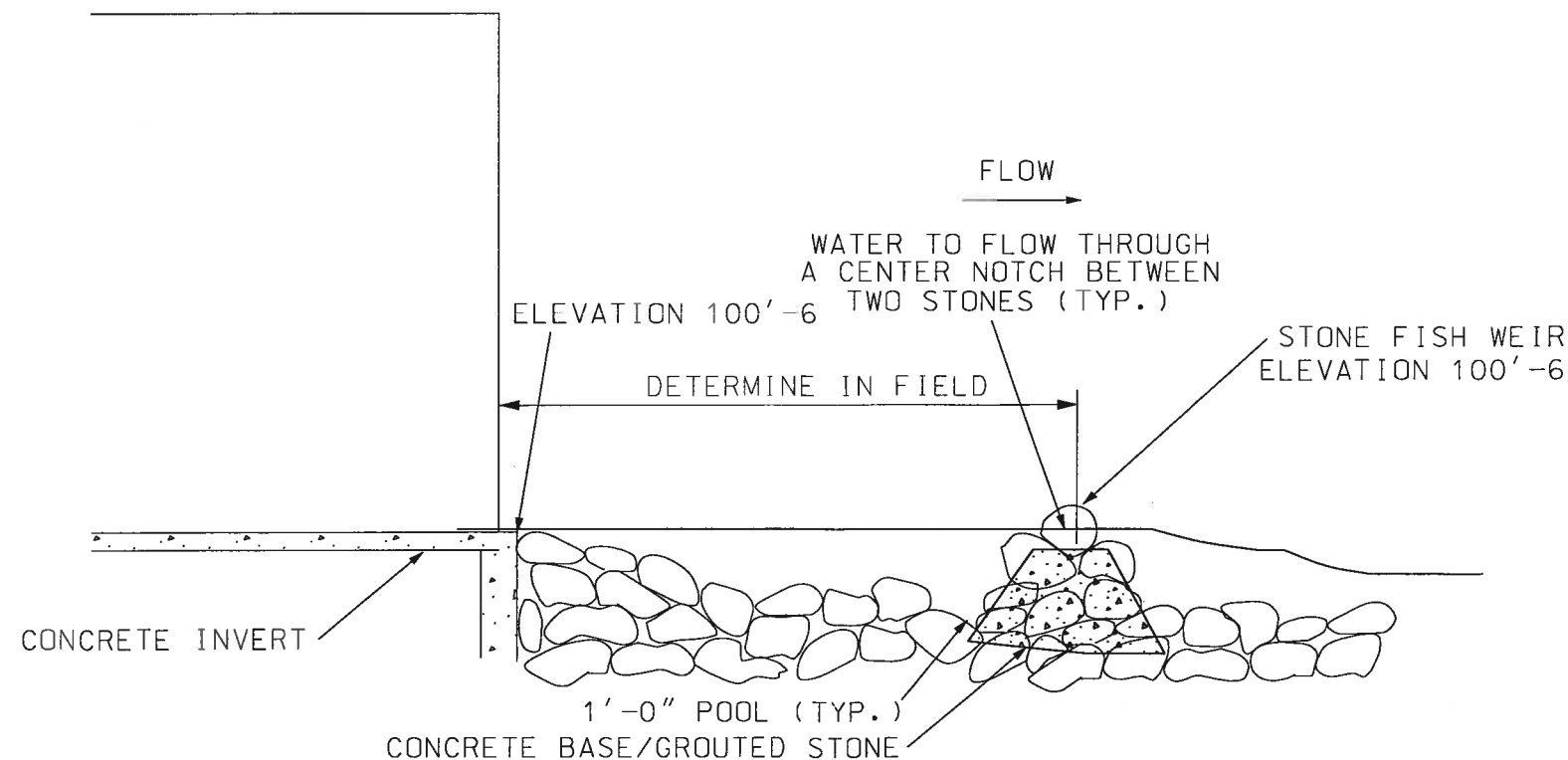
1'-0" MIN. DROP IN HEIGHT
FROM EDGE OF THE BANK
TO THE OUTER EDGE
OF THE LOW FLOW NOTCH



WEIR ELEVATION/CROSS SECTION B-B
NOT TO SCALE

NOTES:

1. WATER LEVEL WILL BE EVEN WITH THE NEW INVERT WHEN THERE IS ENOUGH FLOW FOR 1/2'' DEPTH IN THE PIPE
2. POOLS APPROXIMATELY 1'-0" DEEP AND 3'-0" WIDE WILL BE INSTALLED IN FRONT OF AND BEHIND EACH STEP.
3. THE LOW FLOW NOTCH WILL BE CREATED BY PLACING TWO STONES SIDE BY SIDE, ALLOWING THE WATER TO FLOW BETWEEN THEM.
4. MAXIMUM DROP PER WEIR EQUALS 8" MAX



WEIR CROSS SECTION A-A
NOT TO SCALE

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE MAINTENANCE									
TOWN	RANDOLPH	BRIDGE NO.	088/048	STATE PROJECT	41564	BRIDGE SHEET			
LOCATION	US 2 OVER MOOSE RIVER	ROCK FISH WEIR SYSTEM				4 OF 4			
DESIGNED		BY	DATE	CHECKED		FILE NUMBER		TOTAL SHEETS	
DRAWN		DBL	10/17/17	CHECKED		BENTON		2	
QUANTITIES		CHECKED		FISCAL YEAR		CREW		SHEET NO.	
ISSUE DATE		2015		1		2		2	
REV. DATE									

SHEET SCALE
AS NOTED